namely, "2 por cent. C(X>, 29*4 per cent. CO, and 1 per cent. Cllt, one obtains a total of only 32"4 por cent., i.e., considerably loss than tt5*(> per cent. It must thus have resulted from an abnormal course of reactions in the producer, which involved the not inconsiderable increase of the volume of the gas. If one carries out therefrom the detailed calculations in the manner given, one finds that the gas per kilogramme (J ought to have had a combustible value of about 7,400 calories, whilst it actually reached only-(>,2(>9 calories. Thus about 15 per cent, of the combustible value of the fuel had been lost, and indeed, as shown by the same calculation, that about 0*09 cubic metre ClLj or (>0 per cent, of the CII* present in the distillation gas had been burnt.

In investigation of the working of the producer, it will be well to check tho temperature of the gas for a specified fuel, which is constant in correct working of the process, but which must correspondingly be increaseed, if the distillation gas is burnt in the producer in large measure.